

From wd5ivd@tapr.org Fri May 02 03:59:12 1997  
Received: from [208.134.134.40] ([208.134.134.40]) by tapr.org (8.7.5/8.7.3/1.9)  
with ESMTP id DAA20830 for <tapr-bb@tapr.org>; Fri, 2 May 1997 03:59:10 -0500  
(CDT)  
From: Greg Jones <wd5ivd@tapr.org>  
X-Sender: wd5ivd@tapr.org  
Message-Id: <v03020906af8f5d958b4f@[208.134.134.40]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Fri, 2 May 1997 04:01:13 -0500  
To: "TAPR-BB list mailing" <tapr-bb@tapr.org>  
Subject: P3D RUDAK web page updated

>From Bdale Garbee <bdale@gag.com>

Lyle WA7GXD sent me some digitized pictures of various pieces of Rudak  
undergoing turn-on and testing in his lab in late March. I just got around  
to updating the Rudak web page to include these pictures, and Lyle's  
descriptions of what's happening in each picture.

<http://www.amsat.org/amsat/sats/phase3d/rudak-u/>

Enjoy!

73 - Bdale, N3EUA

From wd5ivd@tapr.org Sat May 03 15:10:27 1997  
Received: from [208.134.134.40] ([208.134.134.40]) by tapr.org (8.7.5/8.7.3/1.9)  
with ESMTP id PAA04548 for <tapr-bb@tapr.org>; Sat, 3 May 1997 15:10:24 -0500  
(CDT)  
Message-Id: <v03020903af91472f06df@[208.134.134.40]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 3 May 1997 15:12:10 -0500  
To: "TAPR-BB list mailing" <tapr-bb@tapr.org>  
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>  
Subject: TAPR Update for Dayton Hamvention

Just a reminder that TAPR is doing a lot of things at Dayton and everyone  
is invited to attend and participate!

Full details are available at <http://www.tapr.org/tapr/html/dayton.html>  
with maps, schedules, and some other goodies. If you need a text version  
of the information, just e-mail [tapr@tapr.org](mailto:tapr@tapr.org)

Friday is the main day of activity with the all day TAPR Digital Forum and  
then that Friday night for the annual PacketBASH and TAPR Banquet. The  
Banquet will be hosted again by the Miami Valley FM Association at the NCR  
facility a few minutes south of Dayton. Tom Clark, W3IWI will be the after  
dinner speaker with the topic of "Amateur Radio 2000: A Retrospective View  
of the Future" . There will also be a prize drawings for those that are  
attending! Should be a fun evening if you don't have anything planned for

Friday evening.

TAPR will also be providing live audio from Dayton on both Friday and Saturday. If all goes well, the entire TAPR Digital Forum will be available on our web site <http://www.tapr.org> for listening to using RealAudio as the forum happens. The radio link between the forum room and the TAPR booth (where the Internet connection is) is planned to be over a high-speed SS radio link, but you never know how a radio is going to handle Dayton :-)  
On Saturday, TAPR is providing live audio from the the Open Ham Radio Town Meeting from 3 - 5 PM EST (Room 5) forum host is Len Winkler, KB7LPW (<http://www.tapr.org/newsline/townmeeting.html>). Check the web page to see the schedule and topics for the session.

The TAPR Digital Forum kicks off at 1pm on Friday and there is a lot on Spread Spectrum communications this year!!

#### Friday Forum Schedule (May 16th)

1:00 - 1:45pm (45 min)

- \* Introduction to Spread Spectrum Communications  
Steve Bible, N7HPR

1:45 - 2:00pm (15min)

- \* Update on TAPR Activity  
Greg Jones, WD5IVD and Steve Stroh, N8GNJ

2:00pm - 2:40pm (40 min)

- \* Building TCP/IP Networks in the Amateur Radio Community  
John Ackermann, AG9V, Allan Finne, KB5SQK

2:40pm - 3:00pm (20 min)

- \* Review of current SS developments  
Barry McLarnon, VE3JF, Dewayne Hendricks, WA8DZP

3:00 - 3:20pm (20 min)

- \* System Design Parameters for Spread Spectrum Systems  
Tom McDermott, N5EG

3:20 - 3:40pm (20 min)

- \* TBA  
Phil Karn, KA9Q

3:40 - 4:00pm (20 min)

- \* TAC-2 (Totally Accurate Clock) GPS Project  
Tom Clark, W3IWI

4:00 - 4:20pm (20 min)

- \* Update on Amateur DSP Activity  
Bob Stricklin, N5BRG, Bill Reed, WD0ETZ

4:20 - 5:00pm+

- \* APRS Update and TAPR APRS SIG Meeting  
Bob Bruninga, WB4APR and Keith Sproul, WU2Z

From wd5ivd@tapr.org Mon May 05 17:53:26 1997  
Received: from [208.134.134.40] ([208.134.134.40]) by tapr.org (8.7.5/8.7.3/1.9)  
with ESMTP id RAA29011 for <tapr-bb@tapr.org>; Mon, 5 May 1997 17:53:24 -0500  
(CDT)  
Message-Id: <v03020925af9414e38ac3@[208.134.134.40]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 5 May 1997 17:52:46 -0500  
To: "TAPR-BB list mailing" <tapr-bb@tapr.org>  
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>  
Subject: Docket 97-12 Comments

We have started the collection of comments from today's filings on Docket  
97-12 on <http://www.tapr.org/ss>

The following (listed below) are now available and we expect more to be  
made available in the coming weeks. These represent filings that the  
individuals/groups sent to us directly in electronic format (thanks!).  
Other selected filings will take time to get up on the web page, because  
copies must be made in Washington DC by our lawyers, mailed to a volunteer  
who then scans them before being made available on the web page. If you  
filed on Docket 97-12 and would like your comments or reply comments in the  
future posted with everyone else's, please send them to [wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)

Comments on Docket 97-12 available include (as of 5/5/97):

Tucson Amateur Packet Radio Corp 5/5/97  
Lyle V. Johnson, WA7GXD 5/5/97  
Philip R. Karn, Jr, KA9Q 5/5/97  
Robert A. Buaas, K6KGS 5/5/97  
Central States VHF Society 5/5/97  
William A. Tynan, W3XO 5/5/97

Cheers - Greg Jones, WD5IVD  
President TAPR

-----  
Greg Jones, WD5IVD  
Austin, Texas  
[wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)  
<http://www.tapr.org/~wd5ivd>  
-----

From wd5ivd@tapr.org Fri May 09 04:09:13 1997  
Received: from [192.168.1.2] (knezek2.coe.unt.edu [129.120.111.42]) by tapr.org

(8.7.5/8.7.3/1.9) with ESMTP id EAA00863; Fri, 9 May 1997 04:09:06 -0500 (CDT)  
Message-Id: <v03020905af989921e678@[192.168.1.2]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Fri, 9 May 1997 04:13:09 -0500  
To: "TAPR-BB list mailing" <tapr-bb@tapr.org>,  
"APRS SIG list mailing" <aprssig@tapr.org>  
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>  
Subject: First batch of MIC-Encoders at Dayton!

TAPR to offer first batch of TAPR APRS MIC-Encoders at Dayton!  
May 9th, 1997  
-----

The MIC-E (Mic Encoder) installs between your radio mic and radio and allows your GPS unit to transmit APRS AX.25 frames at designated intervals without needing a TNC! Very useful in many settings.

See <http://www.tapr.org/tapr/html/mic-e.html> for full details and photos with project history and other interesting details.

The unit is a semi-kit. This means that the board has been partially assembled, but interface wires, box, and other items still require configuration and assembly before usage.

Units to be available at Dayton!  
-----

The first 150 units of the TAPR APRS MicEncoder will be available for sale at Dayton Hamvention! (That is if no catastrophic failure or act of God happens between now and the opening of Hamvention)

In order to handle the demand at the TAPR booth -- here is the deal:

- \* Units will be sold beginning at 12noon (opening) on Friday of HamVention.
- \* Until Saturday 12noon, TAPR members can only purchase up to 3 units per member. This is to allow as many as possible to get access to the 150 units available. If you are not a member, you can always join before getting your unit ;-)
- \* After Saturday 12noon, all non-members and TAPR members wanting additional units can purchase any units still available.
- \* No orders for units to be sold at Dayton  
\*\*\* WILL BE TAKEN AT THE OFFICE EARLY \*\*\*
- \* If you are not going to be attending Dayton, you can use the TAPR order

form to place an order for units not sold at Dayton or the subsequent production of more kits, which should happen shortly after Dayton (2-4 weeks).

- \* Orders will also be taken at Dayton for the subsequent production if the 150 units run out.
- \* There will be no s/h added to the kits sold at Dayton, but we will be adding the Ohio Sales Tax to all Dayton sales.

#### General Information

-----

The price is:

\$134.00 US for members of TAPR + s/h (this is the TAPR 10% discount)  
or  
\$149 US for non-members +s/h

and will include:

- \* TAPR APRS MicEncoder with parts, cabinet, and documents  
The assembly manual is available on the Web page listed above.
- 

Discount for TAPR Members. The \$134.00 purchase price for TAPR members represents the normal 10% membership discount.

Warranty. TAPR will provide replacement units for DOA units that are promptly reported by the purchaser within 90 days after TAPR ships.

Notice regarding TAPR APRS MicEncoder Purchases.

-----

#### Shipping and Handling

- \* Shipping and Handling within the US will be \$7.00 US by UPS Ground unless otherwise requested by purchaser.
  - \* International Shipping will need to contact the TAPR office and get a quote on the shipping to your country. TAPR uses International Express Mail, unless the purchaser requires something else.
- 

#### Discussion

As mobile GPS/APRS continues to grow, we can eliminate the need for every mobile to have a TNC, digital radio, and second antenna by simply integrating the position report into a very brief tone burst at the end of a voice transmission over any two-way radio. The APRS MIC-Encoder is this

solution. With the MIC-E, no additional hardware is required in the vehicle, other than a GPS unit. The system not only reports position and vehicle type, but also one of 7 canned messages and 4 analog telemetry values.

Your APRS MIC-Encoder Unit will provide you a quick, easy means of tracking your mobile operations when properly interfaced with your existing voice radio. Before operating your MIC-E on the air, you should inquire about APRS operations in your immediate area. Check 145.79 MHz (U.S.), 144.39 Mhz (Canada), and some areas may also use 145.01 MHz. By contacting APRS users in your local area you may find particular voice repeaters that already support MIC-E operations with a cross-band link to the local APRS network.

In order to make the APRS LOCATOR SYSTEM practical, the MIC-ENCODER has been designed with several design concepts:

- \* Interfaces to UNMODIFIED radios via the MIC connector
- \* Uses standard AX.25 for compatibility with existing TNC1s
- \* Compresses position report into about 0.3 seconds
- \* Uses low enough in power to be powered from the MIC jack
- \* Accepts the readily available NMEA output from GPS receivers
- \* Optionally provides 4 analog channels for telemetry

The result is a 1200 baud position report compressed to 32 bytes including beginning and ending FLAGS. This equates to about 320ms, including CALLSIGN, DIGIPEATER PATHS, and a minimum message capability. Plus, the packets are still receivable on ANY AX.25 TNC.

The MIC-E installs between your radio mic and radio and allows your GPS unit to transmit APRS AX.25 frames at designated intervals without needing a TNC! Very useful in many settings. Internal GPS units supported include the Garmin GPS-20, Motorola Oncore VP, Trimble, and others. Any external GPS can be used if it provides NMEA output.

The heart of the MIC-E is a PIC chip processor that is now sold commercially by Clements Eng. In 1996, Gwyn Reedy, W1BEL, President of PacComm approached TAPR about handling the amateur version in a semi-kit solution. The TAPR APRS MIC-E is the result of the collaborative process begun in October 1996 and finished in May of 1997.

-----

APRS and MicEncoder are trademarks of Bob Bruninga, WB4APR.

-----

Tucson Amateur Packet Radio  
8987-309 E Tanque Verde Rd #337 \* Tucson, Az \* 85749-9399 \* 817-383-0000

-----

e-mail: TAPR@TAPR.ORG    ftp: ftp.tapr.org    web: <<http://www.tapr.org/>>

-----  
From wd5ivd@tapr.org Tue May 13 14:33:49 1997  
Received: from [192.168.1.2] (knezek2.coe.unt.edu [129.120.111.42]) by tapr.org  
(8.7.5/8.7.3/1.9) with ESMTP id OAA21559 for <tapr-bb@tapr.org>; Tue, 13 May 1997  
14:33:45 -0500 (CDT)  
Message-Id: <v03020900af9e634ad004@[192.168.1.2]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 13 May 1997 14:37:50 -0500  
To: "TAPR-BB list mailing" <tapr-bb@tapr.org>  
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>  
Subject: TAPR @ Dayton HamVention

Just a reminder that TAPR is doing a lot of things at Dayton and everyone  
is invited to attend and participate!

Full details are available at <http://www.tapr.org/tapr/html/dayton.html>  
with maps, schedules, and some other goodies.

Friday:

1pm - 4:20pm (ET) You can listen to the TAPR Digital Forum held at  
HamVention via <http://www.tapr.org/tapr/html/daytonlive.html>

7pm - Annual PacketBASH and TAPR Banquet

Speaker: Tom Clark, W3IWI will be the after dinner speaker with the topic  
of "Amateur Radio 2000: A Retrospective View of the Future" . Get your  
dinner ticket at the TAPR booth before 5pm Saturday and some walk ups can  
be accommodated.

There will be a book signing time before and after dinner with Tom  
McDermott, N5EG, on his new TAPR Wireless Digital Communications Book. Tom  
will also be available on Saturday to sign his book at the TAPR booth.

Saturday:

3pm - 5pm (ET), TAPR will be providing audio from the Open Town Meeting  
hosted by Len Winkler, KB7LPW.

<http://www.tapr.org/newsline/townmeeting.html> This will be the third such  
live audio amateur radio meeting made available by TAPR at an amateur radio  
conference.

The TAPR booth will be at its normal location. We will have 150 MIC-E  
units available along with a few other various TAPR kits, CD-ROM,  
publications, and more!

-----  
Tucson Amateur Packet Radio  
8987-309 E Tanque Verde Rd #337 \* Tucson, Az \* 85749-9399 \* 817-383-0000

-----  
e-mail: TAPR@TAPR.ORG ftp: ftp.tapr.org web: <http://www.tapr.org/>  
-----

From wd5ivd@tapr.org Mon May 19 14:54:25 1997  
Received: from [128.83.113.132] (slip-e-3.ots.utexas.edu [128.83.113.131]) by  
tapr.org (8.7.5/8.7.3/1.9) with ESMTP id OAA25388; Mon, 19 May 1997 14:54:22 -0500  
(CDT)  
Message-Id: <v03020901afa6598d4df5@[192.168.1.2]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 19 May 1997 14:53:45 -0500  
To: "TAPR-BB list mailing" <tapr-bb@tapr.org>,  
"APRS SIG list mailing" <aprssig@tapr.org>  
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>  
Subject: APRS SIG Chair Changes

Topic: New APRS SIG Moderator/Chairperson

I'm pleased to announce that Stan Horzepa, WA1LOU (wa1lou@tapr.org), is the  
new APRS SIG moderator and chairperson.

Stan is very active in APRS SIG and he has been a great supporter of the  
activity for several years now. Keith Sproul, WU2Z, who was responsible  
for the formation of the APRS SIG will be able to spend more time  
supporting the APRS community through further software and technical  
developments.

Please join me in welcoming Stan to his new role.

Larry Keeran, K9ORP, will continue to be the APRS SIG ftp file manager.  
Larry has been doing a super job in keeping the files orgnaized in the APRS  
SIG area. Thanks Larry!

73, Greg Jones, WD5IVD  
President, TAPR

-----  
Greg Jones, WD5IVD  
Austin, Texas  
wd5ivd@tapr.org  
http://www.tapr.org/~wd5ivd  
-----